

Claims

- [c1] 1.A mobile phone comprising:
- a connection module for connecting the mobile phone to a host;
 - a switch module connected to the connection module for switching a connection between the mobile phone and the host;
 - a communication module connected to the switch module for providing wireless communication capability to the mobile phone;
 - a wireless network module connected to the switch module for providing a wireless network to the host when the mobile phone is connected to the host;
 - a memory module connected to the switch module for allowing the host to store data thereto when the mobile phone is connected to the host; and
 - a power module connected to the communication module for providing power to the mobile phone.
- [c2] 2.The mobile phone of claim 1 wherein the connection module comprises a radio transceiver so that the mobile phone and the host connect to each other wirelessly.
- [c3] 3.The mobile phone of claim 1 wherein the connection

module comprises a port.

- [c4] 4.The mobile phone of claim 3 wherein the port is a universal serial bus (USB) port.
- [c5] 5.The mobile phone of claim 4 wherein the switch module is a USB switch or a USB hub.
- [c6] 6.The mobile phone of claim 1 wherein the power module further comprises:
 - a battery for storing power; and
 - a power management unit connected to the battery and the communication module for providing power stored in the battery to the communication module.
- [c7] 7.The mobile phone of claim 6 wherein the power management unit is capable of recharging the battery via the connection module while an external power supply is applied to the connection module.
- [c8] 8.The mobile phone of claim 1 wherein the communication module further comprises:
 - a transmission control unit for controlling the mobile phone;
 - a subscriber identity module connected to the transmission control unit for recording subscriber data; and
 - a communication antenna connected to the transmission control unit for transmitting and receiving radio waves.

- [c9] 9.The mobile phone of claim 8 wherein the transmission control unit is connected to the wireless network module for enabling and disabling the wireless network module.
- [c10] 10.The mobile phone of claim 6 wherein the transmission control unit is a global system for mobile communication (GSM) transmission circuit or a code-division multiple access (CDMA) transmission circuit.
- [c11] 11.The mobile phone of claim 1 wherein the wireless network module further comprises:
 - a wireless network transmission unit for transmitting network data; and
 - a network antenna connected to the wireless network transmission unit for transmitting and receiving radio waves.
- [c12] 12.The mobile phone of claim 11 wherein the wireless network transmission unit is a wireless transmission circuit complying with the IEEE 802.11 standard.
- [c13] 13.The mobile phone of claim 1 wherein the memory module is a flash memory.
- [c14] 14.A wireless communication device comprising:
 - a communication module comprising a communication antenna, a display unit, an input unit, and a transmission

control unit, the communication antenna, the display unit, and the input unit being connected to the transmission control unit;

a memory module comprising a memory unit capable of storing data;

a power module connected to the communication module for providing power to the communication module;

a switch module having a plurality of ports, the switch module being connected to the communication module and the memory module; and

a connection module connected to the switch module for building a connection between the wireless communication device and a calculation device, the switch module connecting to the memory module and the communication module respectively via a first port and a second port, and the switch module enabling the plurality of ports in a predetermined order.

[c15] 15. The wireless communication device of claim 14 wherein the wireless communication device further comprises a wireless network module connected to the switch module via a third port for providing a connection to a wireless local area network (LAN).

[c16] 16. The wireless communication device of claim 15 wherein the power module further comprises:
a battery for storing power; and

a power management unit connected to the battery and the communication module for providing power stored in the battery to the communication module.

- [c17] 17.The wireless communication device of claim 16 wherein when the wireless communication device is connected to the calculation device via the connection module, and the power management unit is capable of connecting to an external power supply via the connection module and is capable of recharging the battery.
- [c18] 18.The wireless communication device of claim 15 wherein the wireless network module comprises:
 - a wireless network transmission unit for transmitting data; and
 - a network antenna connected to the wireless network transmission unit for transmitting and receiving radio waves.
- [c19] 19.The wireless communication device of claim 18 wherein the transmission control unit is connected to the wireless network transmission unit for controlling operations of the wireless network module.
- [c20] 20.The wireless communication device of claim 19 wherein the transmission control unit is controlled via the input unit for selecting operation modes of the wire-

less network module.

- [c21] 21.The wireless communication device of claim 15 wherein the memory unit comprises a flash memory.
- [c22] 22.The wireless communication device of claim 21 wherein the memory module stores drivers for the wireless communication device therein.
- [c23] 23.The wireless communication device of claim 22 wherein when the wireless communication device and the calculation device are connected together, the switch module enables the memory module for transmitting the drivers to the calculation device and installing the drivers in the calculation device so as to transmit signals between the calculation device and the wireless communication device.